

58 Rates



Measurement

A Find the Rate

1a) 'The car went 80 km/h.' What does km/h mean?
.....

b) What does \$/kg mean?
.....

2 Mark got paid \$19.50 for 3 hours work. What is his pay rate in dollars per hour?
..... \$/h

3 The birth rate in New Zealand is about 58 000 babies per year.



a) How many days are there in a year?

b) What is this birth rate on average per day?
Use a calculator and round sensibly.
..... babies/day

B Peaches

1a) Caitlyn bought 2 kg of peaches and paid \$5.90.
What is the cost of the peaches per kg?
.....

b) How much would 3 kg of these peaches cost?
.....

2a) Zane drove 320 km in 4 hours. What is Zane's average speed in km/h?
.....

b) At this speed, how long would it take Zane to drive 480 km?

3a) Our cat eats 6 large tins of cat food per month. How many days does it take our cat to eat 1 large tin?
..... days/tin

b) For how long can the cat be fed with 14 large tins?
.....

C Breaking Records

1 In November 1999 South Islander Grant Smith broke the world record for sheep shearing. He sheared 418 sheep in a working day of 9 hours. How many sheep did he shear in an hour?
.....

2 A cookie with an area of 487 square metres was made in Christchurch in April 1996. It contained 2.5 tonnes of chocolate chips.

a) 1 tonne = 1000 kg. How many kg in 2.5 tonnes?

b) *Estimate* how many kg of chocolate chips were used per square metre of cookie.
.....

3 The greatest quantity of potatoes peeled by 5 people in 45 minutes using kitchen knives is 482.5 kg. You may use a calculator for this question. Show your calculations with a number sentence.

a) On average, what weight of potatoes was peeled by each person?
.....



b) What weight of potatoes, to the nearest kg, was peeled by each person per minute?
.....

working space